

MULTIPLE OCCUPANCIES WORKSHEET

- ☐ I am using separated uses in my design. (IBC 302.3.3)
- ☐ I am using non-separated uses in my design. (IBC 302.3.2)
- ☐ I am using a combination of separated and non-separated uses in my design.

SEPARATED USES

LOCATION (story or side of building)	OCCUPANCIES SEPARATED (both classifications)	FIRE RATING (hourly rating)
<i>(sample) east third floor</i>	<i>office B and lunch room A-2</i>	<i>2 hours</i>

NON-SEPARATED USES

CONSTRUCTION

TYPE _____		
LOCATION (story or side of building)	OCCUPANCIES NOT SEPARATED (all classifications)	MOST RESTRICTIVE
<i>(sample) east third floor</i>	<i>office B and lunch room A-2</i>	<i>A-2</i>

Go to Allowable Areas Worksheets to verify building size allowable for uses shown above.

WORKSHEET INSTRUCTIONS

This worksheet is only required when there is more than one occupancy group in a building. Selection of your first choice below is key to checking compliance with area limitations and requirements related to fire-resistance ratings needed or not needed between different occupancy groups in the building. Note that accessory use areas and firewall separations to create separate buildings are not addressed here.

MULTIPLE OCCUPANCIES WORKSHEET

- ☐ I am using separated uses in my design. (IBC 302.3.3)
- ☐ I am using non-separated uses in my design. (IBC 302.3.2)
- ☐ I am using a combination of separated and non-separated uses in my design.

Check only one of the three boxes to tell the code officials the intent of your design.

The review of plans and inspection of the building will have different lines of thought process and follow different assumptions, depending on which of the three above options is chosen. Thus this is critical information to know at the start of a plan review or before walking into a building on the site.

The next part of this worksheet, shown below, is used if the first or third option is chosen.

SEPARATED USES

LOCATION (story or side of building)	OCCUPANCIES SEPARATED (both classifications)	FIRE RATING (hourly rating)
<u>(sample) east third floor</u>	<u>office B and lunch room A-2</u>	<u>2 hour wall</u>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>

*The next part of this worksheet, shown below, is used if the second or third option is chosen. Note that you **must** fill in the type of construction to determine most restrictive occupancy.*

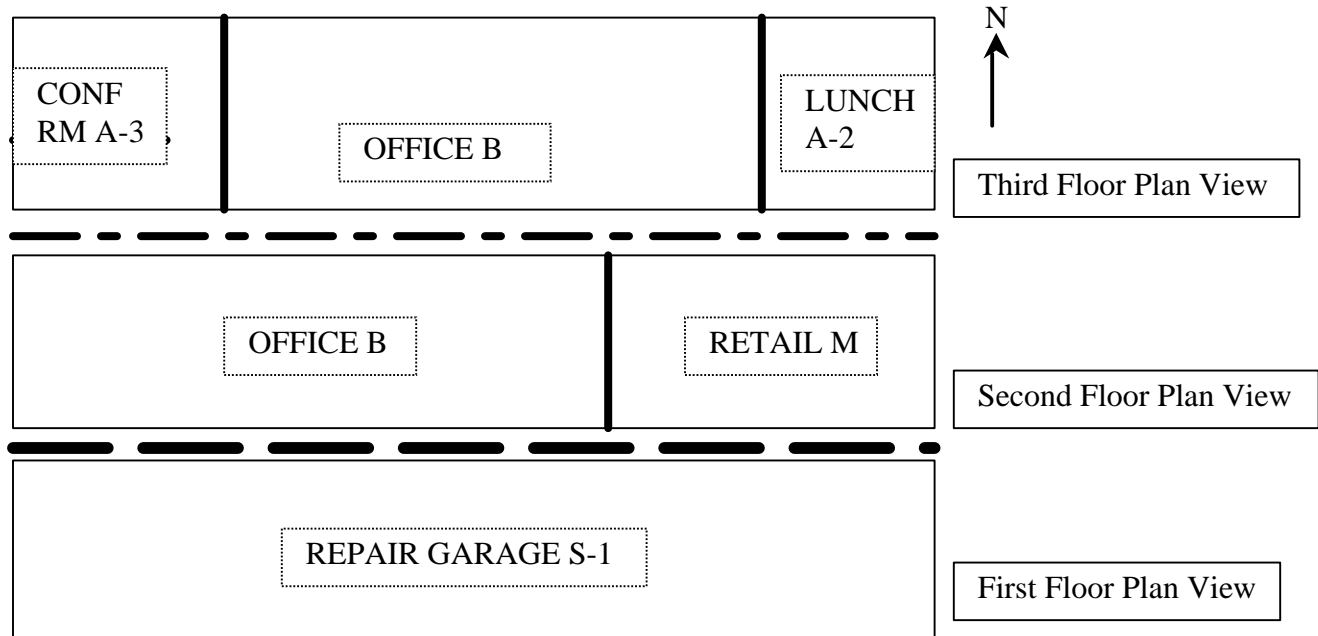
NON-SEPARATED USES

LOCATION (story or side of building)	OCCUPANCIES NOT SEPARATED (all classifications)	CONSTRUCTION TYPE MOST RESTRICTIVE
<u>(sample) east third floor</u>	<u>office B and lunch room A-2</u>	<u>A-2</u>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>

Note the above column for “most restrictive” of the two occupancies is which ever has the most restrictive area or height using that construction type (also critical to know) listed above.

Go to Allowable Areas Worksheets to verify building size allowable for uses shown above.

While this worksheet can stand alone, it usually will require Allowable Areas Worksheets to verify design.

Design Example U

This example for the building above is first option (separated uses) as shown below.

MULTIPLE OCCUPANCIES WORKSHEET

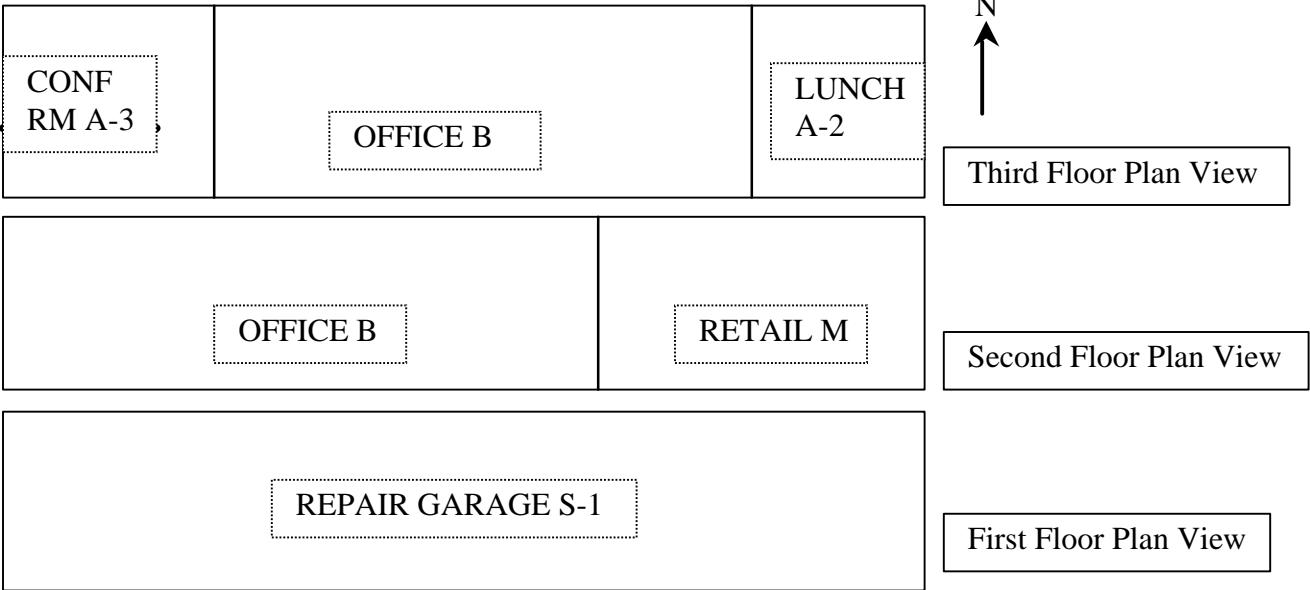
- ☒ I am using separated uses in my design. (IBC 302.3.3)
- ☐ I am using non-separated uses in my design. (IBC 302.3.2)
- ☐ I am using a combination of separated and non-separated uses in my design.

SEPARATED USES

LOCATION (story or side of building)	OCCUPANCIES SEPARATED (both classifications)	FIRE RATING (hourly rating)
west third floor	office B and conference room A-3	2 hour wall
east third floor	office B and lunch room A-2	2 hour wall
east third & second floors	office B above & retail sales M	2 hour floor
east third & second floors	lunch room A-2 above & retail sales M	2 hour floor
west third & second floors	office B below & conference room A-3	2 hour floor
east second floor	office B and retail sales M	2 hour wall
west second & first floors	office B above & repair garage S-1 below	3 hour floor
east second & first floors	retail M above & repair garage S-1 below	3 hour floor

Now the plan reviewer and inspector know where and what ratings are required. Bottom section of worksheet is left blank, as all uses are separated. Note that the lunchroom A-2 & conference room A-3 spaces are too large to be accessory to the office B occupancy in this example

Design Example V



This example for the building above is second option (non-separated uses) as shown below.

WORKSHEET INSTRUCTIONS

Second option design Example V (is same Example U on a previous page) is when the second box is checked.

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- ☐ I am using a combination of separated and non-separated uses in my design.

SEPARATED USES

LOCATION (story or side of building)	OCCUPANCIES SEPARATED (both classifications)	FIRE RATING (hourly rating)
(sample) east third floor	office B and lunchroom A-2	2 hours

Note that the top half of the worksheet is left blank, as no separated uses are being provided in the design.

On the top of the next page of this example you will find the bottom half of the page, which is the part that must be completed for the non-separated uses to be clearly shown. You will note that not all of these separations are located on one specific floor level, thus the location must be clearly described.

Design Example V (CONTINUED)

Note that you must fill in the type of construction to determine most restrictive occupancy. For this example we will assume this to be noncombustible unprotected construction.

**NON-SEPARATED USES**

CONSTRUCTION

TYPE **IIB****LOCATION**

(story or side of building)

OCCUPANCIES NOT SEPARATED

(all classifications)

MOST**RESTRICTIVE**

<u>west third floor</u>	<u>office B and conference room A-3</u>	<u>A-3</u>
<u>east third floor</u>	<u>office B and lunch room A-2</u>	<u>A-2</u>
<u>east third & second floors</u>	<u>office B above & retail sales M below</u>	<u>M</u>
<u>east third & second floors</u>	<u>lunch room A-2 above & retail sales M below</u>	<u>A-2</u>
<u>west third & second floors</u>	<u>office B below & conference room A-3 above</u>	<u>A-3</u>
<u>east second floor</u>	<u>office B and retail sales M</u>	<u>M</u>
<u>west second & first floors</u>	<u>office B above & repair garage S-1 below</u>	<u>S-1</u>
<u>east second & first floors</u>	<u>retail M above & repair garage S-1 below</u>	<u>S-1</u>
<u> </u>	<u> </u>	<u> </u>

You may note that in the example above, for non-separated uses of type IIB construction, that the A-2 & A-3 occupancies are only permitted to be 2 stories in height. Thus the sprinkler increase to add one story in height or a different type of construction must be provided for this building to have the uses shown in the example. Use allowable height worksheet for that item. Also note that this worksheet only determines the rating or worst case occupancy and must always be used in conjunction with a check of the allowable area (see related Allowable Area Worksheets).

If the third box (shown here below) is checked, then fill out both parts, as both are applicable.

☐ I am using a combination of separated and non-separated uses in my design.

As a result of non-separated uses, care must be exercised in filling in the proper allowable area for the non-separated uses in the allowable areas worksheet, as the more restrictive area limit will apply to both of the non-separated occupancies. See examples of that on those worksheets.

Go to Allowable Areas Worksheets to verify building size allowable for uses shown above.